

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

076316814

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

076316301 076316319 076316327 076316335 076316368 076316376 076316384 076316392 076316426 076316434  
076316442 076316459 076316467 076316566 076316574 076316608 076316616 076316624 076316632 076316665  
076316673 076316681 076316699 076316723 076316731 076316749 076316756 076316798 076316806 076316822  
076316830 076316855 076316863 076316871 076316889 076316897 076316913 076316921 076316939 076316947  
076316954 076316988 076316996 076317002 076317010 076317051 076317069 076317077 076317085 076317127  
076317135 076317143 076317150 076317168 076317176 076318000 076318018 076318026 076318034 076318083  
076318091 076318109 076318117 076318166 076318174 076318182 076318190 076318208 076318554 076318562  
076318570 076318588 076318638 076318646 076318653 076318661 076318711 076318729 076318737 076318745  
076318752



# Permite; Lojic +; GS-80, GS-80 Spherical; F400; Ultracaps +; Ultracaps S; SDI Admix; SDI Spherical and New Ultrafine- Capsules

SDI Limited

Version No: 5.1.1.1  
Safety Data Sheet

Issue Date: 12/01/2016  
Print Date: 23/03/2016  
Initial Date: Not Available  
L.GHS.CAN.EN

## SECTION 1 IDENTIFICATION

### Product Identifier

|                               |                                                                                                                                |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Product name                  | Permite; Lojic +; GS-80, GS-80 Spherical; F400; Ultracaps +; Ultracaps S; SDI Admix; SDI Spherical and New Ultrafine- Capsules |
| Synonyms                      | Not Available                                                                                                                  |
| Proper shipping name          | MERCURY CONTAINED IN MANUFACTURED ARTICLES                                                                                     |
| Other means of identification | Not Available                                                                                                                  |

### Recommended use of the chemical and restrictions on use

|                          |                                                         |
|--------------------------|---------------------------------------------------------|
| Relevant identified uses | For filling of cavitated teeth by dental professionals. |
|--------------------------|---------------------------------------------------------|

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

|                         |                                                   |                                                                        |                                         |
|-------------------------|---------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------|
| Registered company name | SDI Limited                                       | SDI Brazil Industria E Comercio Ltda                                   | SDI Germany GmbH                        |
| Address                 | 3-15 Brunston Street VIC Bayswater 3153 Australia | Rua Dr. Virgilio de Carvalho Pinto, 612 São Paulo CEP 05415-020 Brazil | Hansestrasse 85 Cologne D-51149 Germany |
| Telephone               | +61 3 8727 7111 (Business Hours)                  | +55 11 3092 7100                                                       | +49 0 2203 9255 0                       |
| Fax                     | +61 3 8727 7222                                   | +55 11 3092 7101                                                       | +49 0 2203 9255 200                     |
| Website                 | www.sdi.com.au                                    | www.sdi.com.au                                                         | www.sdi.com.au                          |
| Email                   | info@sdi.com.au                                   | brasil@sdi.com.au                                                      | germany@sdi.com.au                      |

|                         |                                                     |
|-------------------------|-----------------------------------------------------|
| Registered company name | SDI (North America) Inc.                            |
| Address                 | 1279 Hamilton Parkway IL Itasca 60143 United States |
| Telephone               | +1 630 361 9200 (Business hours)                    |
| Fax                     | Not Available                                       |
| Website                 | Not Available                                       |
| Email                   | USA.Canada@sdi.com.au                               |

### Emergency phone number

|                                   |                       |               |               |
|-----------------------------------|-----------------------|---------------|---------------|
| Association / Organisation        | SDI Limited           | Not Available | Not Available |
| Emergency telephone numbers       | +61 3 8727 7111       | Not Available | Not Available |
| Other emergency telephone numbers | ray.cahill@sdi.com.au | Not Available | Not Available |

|                                   |                 |
|-----------------------------------|-----------------|
| Association / Organisation        | Not Available   |
| Emergency telephone numbers       | +61 3 8727 7111 |
| Other emergency telephone numbers | Not Available   |

## SECTION 2 HAZARD(S) IDENTIFICATION

### Classification of the substance or mixture

NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Continued...

**Permite; Lojic +; GS-80, GS-80 Spherical; F400; Ultracaps +; Ultracaps S; SDI Admix; SDI Spherical and New Ultrafine- Capsules**

## CANADIAN WHMIS SYMBOLS



|                       |                                                                                                                                                                                                                                                                       |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Classification</b> | Metal Corrosion Category 1, Acute Toxicity (Oral) Category 4, Acute Toxicity (Inhalation) Category 2, Eye Irritation Category 2A, Reproductive Toxicity Category 1B, Specific target organ toxicity - repeated exposure Category 1, Chronic Aquatic Hazard Category 1 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Label elements

|                           |  |
|---------------------------|--|
| <b>GHS label elements</b> |  |
|---------------------------|--|

|                    |               |
|--------------------|---------------|
| <b>SIGNAL WORD</b> | <b>DANGER</b> |
|--------------------|---------------|

## Hazard statement(s)

|             |                                                       |
|-------------|-------------------------------------------------------|
| <b>H290</b> | May be corrosive to metals.                           |
| <b>H302</b> | Harmful if swallowed.                                 |
| <b>H330</b> | Fatal if inhaled.                                     |
| <b>H319</b> | Causes serious eye irritation.                        |
| <b>H360</b> | May damage fertility or the unborn child.             |
| <b>H372</b> | Causes damage to organs.                              |
| <b>H410</b> | Very toxic to aquatic life with long lasting effects. |

## Hazard(s) not otherwise specified

Not Applicable

## Precautionary statement(s) Prevention

|             |                                                                            |
|-------------|----------------------------------------------------------------------------|
| <b>P201</b> | Obtain special instructions before use.                                    |
| <b>P260</b> | Do not breathe dust/fume/gas/mist/vapours/spray.                           |
| <b>P271</b> | Use only outdoors or in a well-ventilated area.                            |
| <b>P280</b> | Wear protective gloves/protective clothing/eye protection/face protection. |
| <b>P234</b> | Keep only in original packaging.                                           |
| <b>P270</b> | Do not eat, drink or smoke when using this product.                        |
| <b>P273</b> | Avoid release to the environment.                                          |
| <b>P284</b> | [In case of inadequate ventilation] wear respiratory protection.           |

## Precautionary statement(s) Response

|                       |                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>P304+P340</b>      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| <b>P308+P313</b>      | IF exposed or concerned: Get medical advice/ attention.                                                                          |
| <b>P310</b>           | Immediately call a POISON CENTER/doctor/physician/first aider.                                                                   |
| <b>P305+P351+P338</b> | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| <b>P337+P313</b>      | If eye irritation persists: Get medical advice/attention.                                                                        |
| <b>P390</b>           | Absorb spillage to prevent material damage.                                                                                      |
| <b>P391</b>           | Collect spillage.                                                                                                                |
| <b>P301+P312</b>      | IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.                                              |
| <b>P330</b>           | Rinse mouth.                                                                                                                     |

## Precautionary statement(s) Storage

|                  |                                                                  |
|------------------|------------------------------------------------------------------|
| <b>P403+P233</b> | Store in a well-ventilated place. Keep container tightly closed. |
| <b>P405</b>      | Store locked up.                                                 |

## Precautionary statement(s) Disposal

|             |                                                                     |
|-------------|---------------------------------------------------------------------|
| <b>P501</b> | Dispose of contents/container in accordance with local regulations. |
|-------------|---------------------------------------------------------------------|

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

## Substances

See section below for composition of Mixtures

## Mixtures

| CAS No | %[weight] | Name |
|--------|-----------|------|
|--------|-----------|------|

Continued...

**Permite; Lojic +; GS-80, GS-80 Spherical; F400; Ultracaps +; Ultracaps S; SDI Admix; SDI Spherical and New Ultrafine- Capsules**

|           |       |                            |
|-----------|-------|----------------------------|
|           |       | capsules                   |
| 7439-97-6 | 40-50 | <u>mercury (elemental)</u> |

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

## SECTION 4 FIRST-AID MEASURES

### Description of first aid measures

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye Contact</b>  | <p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> <li>▶ Immediately hold eyelids apart and flush the eye continuously with running water.</li> <li>▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>▶ Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>▶ Transport to hospital or doctor without delay.</li> <li>▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Skin Contact</b> | <p>If skin contact occurs:</p> <ul style="list-style-type: none"> <li>▶ Immediately remove all contaminated clothing, including footwear.</li> <li>▶ Flush skin and hair with running water (and soap if available).</li> <li>▶ Seek medical attention in event of irritation.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Inhalation</b>   | <ul style="list-style-type: none"> <li>▶ If fumes or combustion products are inhaled remove from contaminated area.</li> <li>▶ Lay patient down. Keep warm and rested.</li> <li>▶ Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>▶ Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>▶ Transport to hospital, or doctor, without delay.</li> <li>▶ Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema.</li> <li>▶ Corrosive substances may cause lung damage (e.g. lung oedema, fluid in the lungs).</li> <li>▶ As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete rest (preferably in semi-recumbent posture) and must be kept under medical observation even if no symptoms are (yet) manifested.</li> <li>▶ Before any such manifestation, the administration of a spray containing a dexamethasone derivative or beclomethasone derivative may be considered.</li> </ul> <p><b>This must definitely be left to a doctor or person authorised by him/her.</b><br/>(ICSC13719)</p> |
| <b>Ingestion</b>    | <p>Seek medical attention.</p> <p>Rinse mouth with water. Drink large quantities of water (if conscious)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

### Indication of any immediate medical attention and special treatment needed

- ▶ Moderate adsorption of inorganic mercury compounds through the gastro-intestinal tract (7-15%) is the principal cause of poisoning. These compounds are highly concentrated (as the mercuric (Hg (2+) form) in the kidney; acute ingestion may lead to oliguric renal failure. Severe mucosal necrosis may also result from ingestion.
- ▶ Chronic effects range from proteinuria to nephrotic syndrome. Chronic presentation also involves dermatitis, gingivitis, stomatitis, tremor and neuropsychiatric symptoms of erethism.
- ▶ Absorbed inorganic mercury does not significantly cross the blood-brain barrier.
- ▶ Emesis and lavage should be initiated following acute ingestion.
- ▶ Activated charcoal interrupts absorption; cathartics should be administered when charcoal is given.
- ▶ The use of British Anti-Lewisite is indicated in severe inorganic poisoning. Newer derivatives of BAL (e.g. dimercaptosuccinic acid, [DMSA] and 2,3-dimercapto-1-propanesulfate [DMPS]) may prove more effective. [Ellenhorn and Barceloux: Medical Toxicology]

### BIOLOGICAL EXPOSURE INDEX - BEI

These represent the determinants observed in specimens from a healthy worker exposed at the Exposure Standard (ES or TLV).

| Determinant                         | Index               | Sampling Time                   | Comments |
|-------------------------------------|---------------------|---------------------------------|----------|
| 1. Total inorganic mercury in urine | 35 ug/gm creatinine | Pre-shift                       | B        |
| 2. Total inorganic mercury in blood | 15 ug/L             | End of shift at end of workweek | B        |

B: Background levels occur in specimens collected from subjects **NOT** exposed.  
for corrosives:

### BASIC TREATMENT

- ▶ Establish a patent airway with suction where necessary.
- ▶ Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- ▶ Administer oxygen by non-rebreather mask at 10 to 15 l/min.
- ▶ Monitor and treat, where necessary, for pulmonary oedema.
- ▶ Monitor and treat, where necessary, for shock.
- ▶ Anticipate seizures.
- ▶ Where eyes have been exposed, flush immediately with water and continue to irrigate with normal saline during transport to hospital.
- ▶ **DO NOT use emetics.** Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.
- ▶ Skin burns should be covered with dry, sterile bandages, following decontamination.
- ▶ **DO NOT attempt neutralisation as exothermic reaction may occur.**

### ADVANCED TREATMENT

- ▶ Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- ▶ Positive-pressure ventilation using a bag-valve mask might be of use.
- ▶ Monitor and treat, where necessary, for arrhythmias.
- ▶ Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- ▶ Drug therapy should be considered for pulmonary oedema.
- ▶ Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- ▶ Treat seizures with diazepam.
- ▶ Proparacaine hydrochloride should be used to assist eye irrigation.

### EMERGENCY DEPARTMENT

- ▶ Laboratory analysis of complete blood count, serum electrolytes, BUN, creatinine, glucose, urinalysis, baseline for serum aminotransferases (ALT and AST), calcium, phosphorus and

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- ▶ magnesium, may assist in establishing a treatment regime.
- ▶ Positive end-expiratory pressure (PEEP)-assisted ventilation may be required for acute parenchymal injury or adult respiratory distress syndrome.
- ▶ Consider endoscopy to evaluate oral injury.
- ▶ Consult a toxicologist as necessary.

BRONSTEIN, A.C. and CURRANCE, P.L. *EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994*

### SECTION 5 FIRE-FIGHTING MEASURES

#### Extinguishing media

- ▶ Water spray or fog.
- ▶ Foam.
- ▶ Dry chemical powder.
- ▶ BCF (where regulations permit).
- ▶ Carbon dioxide.

#### Special hazards arising from the substrate or mixture

|                             |                                                                                                                                          |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fire Incompatibility</b> | ▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------|

#### Special protective equipment and precautions for fire-fighters

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fire Fighting</b>         | <ul style="list-style-type: none"> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ Wear full body protective clothing with breathing apparatus.</li> <li>▶ Prevent, by any means available, spillage from entering drains or water course.</li> <li>▶ Use fire fighting procedures suitable for surrounding area.</li> <li>▶ <b>Do not approach containers suspected to be hot.</b></li> <li>▶ Cool fire exposed containers with water spray from a protected location.</li> <li>▶ If safe to do so, remove containers from path of fire.</li> <li>▶ Equipment should be thoroughly decontaminated after use.</li> </ul> <p>Slight hazard when exposed to heat, flame and oxidisers.</p> |
| <b>Fire/Explosion Hazard</b> | <p><b>Contains low boiling substance:</b> Closed containers may rupture due to pressure buildup under fire conditions.</p> <p>Articles and manufactured articles may constitute a fire hazard where polymers form their outer layers or where combustible packaging remains in place.</p> <p>Certain substances, found throughout their construction, may degrade or become volatile when heated to high temperatures. This may create a secondary hazard.</p> <p>May emit corrosive fumes. May emit poisonous fumes.</p>                                                                                                                                                                                                 |

### SECTION 6 ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Minor Spills</b> | <ul style="list-style-type: none"> <li>▶ Use suction bottle to collect small amounts of mercury.</li> <li>▶ Calcium polysulfide with excess sulfur can be sprinkled into cracks or other inaccessible places to convert mercury globules into the sulfide.</li> <li>▶ Collect solid residues and place in tightly sealed, clean, dry containers</li> <li>▶ Clean up all spills immediately.</li> <li>▶ Secure load if safe to do so.</li> <li>▶ Bundle/collect recoverable product.</li> <li>▶ Collect remaining material in containers with covers for disposal.</li> </ul>                                                                                                                                                      |
| <b>Major Spills</b> | <ul style="list-style-type: none"> <li>▶ Avoid all personal contact and wear full protective equipment</li> <li>▶ Environmental hazard: contain spillage. Stop leak if safe to do so</li> <li>▶ Clean up bulk mercury spillage by mechanical means, suck up where practicable.</li> <li>▶ Calcium polysulfide with excess sulfur can be sprinkled into cracks or other inaccessible places to convert mercury globules into the sulfide. (Proprietary products are available for this purpose)</li> <li>▶ Collect solid residues and place in clean, dry, sealable plastic drums.</li> <li>▶ Ensure that all residues are cleaned up.</li> <li>▶ Do NOT wash spill area after clean up.</li> <li>▶ Vacuum up residues.</li> </ul> |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### SECTION 7 HANDLING AND STORAGE

#### Precautions for safe handling

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Safe handling</b>     | <ul style="list-style-type: none"> <li>▶ Avoid all personal contact, including inhalation.</li> <li>▶ Wear protective clothing when risk of exposure occurs.</li> <li>▶ Use in a well-ventilated area.</li> <li>▶ Avoid contact with moisture.</li> <li>▶ Avoid contact with incompatible materials.</li> <li>▶ <b>When handling, DO NOT eat, drink or smoke.</b></li> <li>▶ Keep containers securely sealed when not in use.</li> <li>▶ Avoid physical damage to containers.</li> <li>▶ Always wash hands with soap and water after handling.</li> <li>▶ Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>▶ Use good occupational work practice.</li> <li>▶ Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>▶ Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul> |
| <b>Other information</b> | <p>Store below 25 deg. C.</p> <p>Store in a dry and well ventilated-area, away from heat and sunlight.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

#### Conditions for safe storage, including any incompatibilities

|                                |                                                                       |
|--------------------------------|-----------------------------------------------------------------------|
| <b>Suitable container</b>      | ▶ <b>DO NOT repack.</b> Use containers supplied by manufacturer only. |
| <b>Storage incompatibility</b> | ▶ Avoid reaction with oxidising agents                                |

Continued...

**Permite; Lojic +; GS-80, GS-80 Spherical; F400; Ultracaps +; Ultracaps S; SDI Admix; SDI Spherical and New Ultrafine- Capsules**

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

##### INGREDIENT DATA

| Source                                                                                  | Ingredient          | Material name                                                          | TWA                    | STEL                   | Peak          | Notes                                                       |
|-----------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------|------------------------|------------------------|---------------|-------------------------------------------------------------|
| Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances           | mercury (elemental) | Mercury (Alkyl compounds) - Skin (as Hg)                               | 0.01 mg/m3 / 0.001 ppm | 0.03 mg/m3 / 0.003 ppm | Not Available | Not Available                                               |
| Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances           | mercury (elemental) | Mercury (all forms except Alkyl) (as Hg)                               | 0.05 mg/m3 / --- ppm   | 0.15 mg/m3 / --- ppm   | Not Available | Not Available                                               |
| Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits | mercury (elemental) | Mercury, (as Hg): Inorganic forms, including metallic mercury          | 0.025 mg/m3            | 0.075 mg/m3            | Not Available | Skin                                                        |
| Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits | mercury (elemental) | Mercury, (as Hg): Alkyl compounds                                      | 0.01 mg/m3             | 0.03 mg/m3             | Not Available | Skin                                                        |
| Canada - (English)                                                                      | mercury (elemental) | Mercury, (as Hg): Inorganic forms, including metallic mercury          | 0.025 mg/m3            | 0.075 mg/m3            | Not Available | Skin                                                        |
| Canada - (English)                                                                      | mercury (elemental) | Mercury, (as Hg): Alkyl compounds                                      | 0.01 mg/m3             | 0.03 mg/m3             | Not Available | Skin                                                        |
| Canada - Nova Scotia Occupational Exposure Limits                                       | mercury (elemental) | Mercury - Elemental (as Hg)                                            | 0.025 mg/m3            | Not Available          | Not Available | TLV Basis: central nervous system impairment; kidney damage |
| Canada - Prince Edward Island Occupational Exposure Limits                              | mercury (elemental) | Silver, and compounds - Metal, dust and fume                           | 0.1 mg/m3              | Not Available          | Not Available | TLV® Basis: Argyria                                         |
| Canada - Prince Edward Island Occupational Exposure Limits                              | mercury (elemental) | Mercury, all forms except alkyl, as Hg - Elemental and inorganic forms | 0.025 mg/m3            | Not Available          | Not Available | TLV® Basis: CNS impair; kidney dam; BEI                     |
| Canada - Quebec Permissible Exposure Values for Airborne Contaminants (English)         | mercury (elemental) | Mercury , mercury vapor (as Hg)                                        | 0.025 mg/m3            | Not Available          | Not Available | Not Available                                               |
| Canada - Alberta Occupational Exposure Limits                                           | mercury (elemental) | Mercury, as Hg in Inorganic compounds, including metallic mercury      | 0.025 mg/m3            | Not Available          | Not Available | Not Available                                               |
| Canada - British Columbia Occupational Exposure Limits                                  | mercury (elemental) | Mercury - Elemental, as Hg                                             | 0.025 mg/m3            | Not Available          | Not Available | Not Available                                               |

#### EMERGENCY LIMITS

| Ingredient          | Material name | TEEL-1     | TEEL-2        | TEEL-3        |
|---------------------|---------------|------------|---------------|---------------|
| mercury (elemental) | Mercury vapor | 0.15 mg/m3 | Not Available | Not Available |

  

| Ingredient          | Original IDLH       | Revised IDLH       |
|---------------------|---------------------|--------------------|
| mercury (elemental) | 10 mg/m3 / 28 mg/m3 | 2 mg/m3 / 10 mg/m3 |

#### MATERIAL DATA

### Exposure controls

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <b>Appropriate engineering controls</b> | <p>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.</p> <p>The basic types of engineering controls are:</p> <p>Process controls which involve changing the way a job activity or process is done to reduce the risk.</p> <p>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.</p> <p>Employers may need to use multiple types of controls to prevent employee overexposure.</p> <p>Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection.</p> <p>Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection.</p> <p>An approved self contained breathing apparatus (SCBA) may be required in some situations.</p> <p>Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.</p> |                              |
|                                         | Type of Contaminant:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Air Speed:                   |
|                                         | solvent, vapours, degreasing etc., evaporating from tank (in still air).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.25-0.5 m/s (50-100 f/min.) |
|                                         | aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.5-1 m/s (100-200 f/min.)   |
|                                         | direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1-2.5 m/s (200-500 f/min.)   |
|                                         | grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2.5-10 m/s (500-2000 f/min.) |

Continued...

**Permite; Lojic +; GS-80, GS-80 Spherical; F400; Ultracaps +; Ultracaps S; SDI Admix; SDI Spherical and New Ultrafine- Capsules**

|                                                            | <p>Within each range the appropriate value depends on:</p> <table border="1"> <tr> <th>Lower end of the range</th><th>Upper end of the range</th></tr> <tr> <td>1: Room air currents minimal or favourable to capture</td><td>1: Disturbing room air currents</td></tr> <tr> <td>2: Contaminants of low toxicity or of nuisance value only.</td><td>2: Contaminants of high toxicity</td></tr> <tr> <td>3: Intermittent, low production.</td><td>3: High production, heavy use</td></tr> <tr> <td>4: Large hood or large air mass in motion</td><td>4: Small hood-local control only</td></tr> </table> <p>Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used. Articles or manufactured items, in their original condition, generally don't require engineering controls during handling or in normal use. Exceptions may arise following extensive use and subsequent wear, during recycling or disposal operations where substances, found in the article, may be released to the environment.</p> | Lower end of the range | Upper end of the range | 1: Room air currents minimal or favourable to capture | 1: Disturbing room air currents | 2: Contaminants of low toxicity or of nuisance value only. | 2: Contaminants of high toxicity | 3: Intermittent, low production. | 3: High production, heavy use | 4: Large hood or large air mass in motion | 4: Small hood-local control only |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|-------------------------------------------------------|---------------------------------|------------------------------------------------------------|----------------------------------|----------------------------------|-------------------------------|-------------------------------------------|----------------------------------|
| Lower end of the range                                     | Upper end of the range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |                        |                                                       |                                 |                                                            |                                  |                                  |                               |                                           |                                  |
| 1: Room air currents minimal or favourable to capture      | 1: Disturbing room air currents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |                        |                                                       |                                 |                                                            |                                  |                                  |                               |                                           |                                  |
| 2: Contaminants of low toxicity or of nuisance value only. | 2: Contaminants of high toxicity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                        |                                                       |                                 |                                                            |                                  |                                  |                               |                                           |                                  |
| 3: Intermittent, low production.                           | 3: High production, heavy use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                        |                                                       |                                 |                                                            |                                  |                                  |                               |                                           |                                  |
| 4: Large hood or large air mass in motion                  | 4: Small hood-local control only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                        |                                                       |                                 |                                                            |                                  |                                  |                               |                                           |                                  |
| <b>Personal protection</b>                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                        |                                                       |                                 |                                                            |                                  |                                  |                               |                                           |                                  |
| <b>Eye and face protection</b>                             | <ul style="list-style-type: none"> <li>▶ Safety glasses with side shields.</li> <li>▶ Chemical goggles.</li> <li>▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |                        |                                                       |                                 |                                                            |                                  |                                  |                               |                                           |                                  |
| <b>Skin protection</b>                                     | See Hand protection below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |                        |                                                       |                                 |                                                            |                                  |                                  |                               |                                           |                                  |
| <b>Hands/feet protection</b>                               | Wear impervious gloves.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                        |                                                       |                                 |                                                            |                                  |                                  |                               |                                           |                                  |
| <b>Body protection</b>                                     | See Other protection below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |                        |                                                       |                                 |                                                            |                                  |                                  |                               |                                           |                                  |
| <b>Other protection</b>                                    | <ul style="list-style-type: none"> <li>▶ Overalls.</li> <li>▶ PVC Apron.</li> <li>▶ PVC protective suit may be required if exposure severe.</li> <li>▶ Eyewash unit.</li> <li>▶ Ensure there is ready access to a safety shower.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |                        |                                                       |                                 |                                                            |                                  |                                  |                               |                                           |                                  |
| <b>Thermal hazards</b>                                     | Not Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                        |                                                       |                                 |                                                            |                                  |                                  |                               |                                           |                                  |

### Respiratory protection

Type HG-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator   |
|------------------------------------|----------------------|----------------------|--------------------------|
| up to 10 x ES                      | HG-AUS P2            | -                    | HG-PAPR-AUS / Class 1 P2 |
| up to 50 x ES                      | -                    | HG-AUS / Class 1 P2  | -                        |
| up to 100 x ES                     | -                    | HG-2 P2              | HG-PAPR-2 P2 ^           |

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO<sub>2</sub>), G = Agricultural chemicals, K = Ammonia(NH<sub>3</sub>), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                                     |                                                                                                                                                                                                          |                                                |                |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------|
| <b>Appearance</b>                                   | Silver alloy powder and mercury in separate compartments of a plastic capsule. Grey fine metallic powder (Silver alloy) and silver-white heavy liquid metal (Mercury) with no odour, insoluble in water. |                                                |                |
| <b>Physical state</b>                               | Manufactured                                                                                                                                                                                             | <b>Relative density (Water = 1)</b>            | 13.6 (Mercury) |
| <b>Odour</b>                                        | Not Available                                                                                                                                                                                            | <b>Partition coefficient n-octanol / water</b> | Not Available  |
| <b>Odour threshold</b>                              | Not Available                                                                                                                                                                                            | <b>Auto-ignition temperature (°C)</b>          | Not Applicable |
| <b>pH (as supplied)</b>                             | Not Applicable                                                                                                                                                                                           | <b>Decomposition temperature</b>               | Not Available  |
| <b>Melting point / freezing point (°C)</b>          | 356.6 (Mercury)                                                                                                                                                                                          | <b>Viscosity (cSt)</b>                         | Not Available  |
| <b>Initial boiling point and boiling range (°C)</b> | -38.9 (Mercury)                                                                                                                                                                                          | <b>Molecular weight (g/mol)</b>                | Not Applicable |
| <b>Flash point (°C)</b>                             | Not Applicable                                                                                                                                                                                           | <b>Taste</b>                                   | Not Available  |
| <b>Evaporation rate</b>                             | Not Available                                                                                                                                                                                            | <b>Explosive properties</b>                    | Not Available  |

Continued...

**Permite; Lojic +; GS-80, GS-80 Spherical; F400; Ultracaps +; Ultracaps S; SDI Admix; SDI Spherical and New Ultrafine- Capsules**

|                                  |                        |                                         |                |
|----------------------------------|------------------------|-----------------------------------------|----------------|
| <b>Flammability</b>              | Not Applicable         | <b>Oxidising properties</b>             | Not Available  |
| <b>Upper Explosive Limit (%)</b> | Not Applicable         | <b>Surface Tension (dyn/cm or mN/m)</b> | Not Applicable |
| <b>Lower Explosive Limit (%)</b> | Not Applicable         | <b>Volatile Component (%vol)</b>        | Not Applicable |
| <b>Vapour pressure (kPa)</b>     | 0 @ 20 deg C (Mercury) | <b>Gas group</b>                        | Not Available  |
| <b>Solubility in water (g/L)</b> | Immiscible             | <b>pH as a solution (1%)</b>            | Not Applicable |
| <b>Vapour density (Air = 1)</b>  | -6.9 (Mercury)         | <b>VOC g/L</b>                          | Not Available  |

## SECTION 10 STABILITY AND REACTIVITY

|                                           |                                                                                                                                                                                                      |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | See section 7                                                                                                                                                                                        |
| <b>Chemical stability</b>                 | <ul style="list-style-type: none"> <li>▶ Unstable in the presence of incompatible materials.</li> <li>▶ Product is considered stable.</li> <li>▶ Hazardous polymerisation will not occur.</li> </ul> |
| <b>Possibility of hazardous reactions</b> | See section 7                                                                                                                                                                                        |
| <b>Conditions to avoid</b>                | See section 7                                                                                                                                                                                        |
| <b>Incompatible materials</b>             | See section 7                                                                                                                                                                                        |
| <b>Hazardous decomposition products</b>   | See section 5                                                                                                                                                                                        |

## SECTION 11 TOXICOLOGICAL INFORMATION

### Information on toxicological effects

| <b>Inhaled</b>                                                                                            | <p>Material is highly volatile and may quickly form a concentrated atmosphere in confined or unventilated areas. The vapour may displace and replace air in breathing zone, acting as a simple asphyxiant. This may happen with little warning of overexposure.</p> <p>The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing. Before starting consider control of exposure by mechanical ventilation.</p> <p>Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may produce severely toxic effects. Relatively small amounts absorbed from the lungs may prove fatal.</p> <p>Limited evidence or practical experience suggests that the material may produce irritation of the respiratory system, in a significant number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.</p>                                                                                                         |          |            |               |               |
|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|---------------|---------------|
| <b>Ingestion</b>                                                                                          | <p>Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.</p> <p>Following ingestion of mercury compounds, symptoms may appear within the first few minutes and may include pain, profuse vomiting and severe purging; the victim may die within a few hours from peripheral vascular collapse secondary to fluid and electrolyte loss. Primary gastroenteritis may subside spontaneously within a few days but severe haemorrhagic inflammation of the colon (colitis) has occurred as late as 9 days following ingestion. A second phase developing over 1-3 days is characterised by stomatitis (lesions of the mouth parts), membranous colitis and kidney damage (tubular nephritis). This second phase is associated with a slow and prolonged excretion of mercury by salivary glands, the gastrointestinal mucosa and kidneys. Death in this phase usually occurs as a result of kidney failure.</p> <p>The alimentary effects of many mercury compounds are so rapid that the course and outlook is largely determined by events within the first 5-10 minutes. Acute systemic "mercurialism" may be lethal within a few minutes or death may be delayed for 5-12 days. The ionisable salts are corrosive and tissue damage occurs almost immediately in the mouth, throat and oesophagus.</p>                                                                                                                                                   |          |            |               |               |
| <b>Skin Contact</b>                                                                                       | <p>Limited evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis.</p> <p>Open cuts, abraded or irritated skin should not be exposed to this material</p> <p>Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.</p> <p>Irritation and skin reactions are possible with sensitive skin</p>                                                                                                                                                                                                                                                                          |          |            |               |               |
| <b>Eye</b>                                                                                                | <p>Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals.</p> <p>Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |            |               |               |
| <b>Chronic</b>                                                                                            | <p>Toxic: danger of serious damage to health by prolonged exposure through inhalation.</p> <p>Serious damage (clear functional disturbance or morphological change which may have toxicological significance) is likely to be caused by repeated or prolonged exposure. As a rule the material produces, or contains a substance which produces severe lesions. Such damage may become apparent following direct application in subchronic (90 day) toxicity studies or following sub-acute (28 day) or chronic (two-year) toxicity tests.</p> <p>There is sufficient evidence to provide a strong presumption that human exposure to the material may result in developmental toxicity, generally on the basis of:</p> <ul style="list-style-type: none"> <li>- clear results in appropriate animal studies where effects have been observed in the absence of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not secondary non-specific consequences of the other toxic effects.</li> </ul> <p>Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue. Gastrointestinal disturbances may also occur. Chronic exposures may result in dermatitis and/or conjunctivitis.</p> <p>Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.</p> |          |            |               |               |
| <b>Permite; Lojic +; GS-80, GS-80 Spherical; F400; Ultracaps +; Ultracaps S; SDI Admix; SDI Spherical</b> | <table> <tr> <th>TOXICITY</th><th>IRRITATION</th></tr> <tr> <td>Not Available</td><td>Not Available</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | TOXICITY | IRRITATION | Not Available | Not Available |
| TOXICITY                                                                                                  | IRRITATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |            |               |               |
| Not Available                                                                                             | Not Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |            |               |               |



**Permite; Lojic +; GS-80, GS-80 Spherical; F400; Ultracaps +; Ultracaps S; SDI Admix; SDI Spherical and New Ultrafine- Capsules**

| and New Ultrafine- Capsules                                                                                                                                                                                                                 |                                            |                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------|
| mercury (elemental)                                                                                                                                                                                                                         | TOXICITY                                   | IRRITATION      |
|                                                                                                                                                                                                                                             | Oral (rat) LD50: >9.2 mg/kg <sup>[1]</sup> | (Source: RTECS) |
|                                                                                                                                                                                                                                             |                                            | Nil reported    |
| <b>Legend:</b> 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances |                                            |                 |

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MERCURY (ELEMENTAL)</b> | <p>Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production. Animal studies have shown that mercury may be a reproductive effector.</p> |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                   |   |                          |   |
|-----------------------------------|---|--------------------------|---|
| Acute Toxicity                    | ✓ | Carcinogenicity          | ⊘ |
| Skin Irritation/Corrosion         | ⊘ | Reproductivity           | ✓ |
| Serious Eye Damage/Irritation     | ✓ | STOT - Single Exposure   | ⊘ |
| Respiratory or Skin sensitisation | ⊘ | STOT - Repeated Exposure | ✓ |
| Mutagenicity                      | ⊘ | Aspiration Hazard        | ⊘ |

**Legend:** ✗ – Data available but does not fill the criteria for classification  
 ✓ – Data required to make classification available  
 ⊘ – Data Not Available to make classification

## SECTION 12 ECOLOGICAL INFORMATION

### Toxicity

| Ingredient          | Endpoint                                                                                                                                                                                                                                                                                                                                                                           | Test Duration (hr) | Species                       | Value       | Source |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------|-------------|--------|
| mercury (elemental) | BCF                                                                                                                                                                                                                                                                                                                                                                                | 720                | Fish                          | 0.001mg/L   | 4      |
| mercury (elemental) | EC50                                                                                                                                                                                                                                                                                                                                                                               | 72                 | Algae or other aquatic plants | 0.0025mg/L  | 4      |
| mercury (elemental) | LC50                                                                                                                                                                                                                                                                                                                                                                               | 96                 | Fish                          | 0.004mg/L   | 4      |
| mercury (elemental) | EC50                                                                                                                                                                                                                                                                                                                                                                               | 240                | Fish                          | 0.0003mg/L  | 5      |
| mercury (elemental) | EC50                                                                                                                                                                                                                                                                                                                                                                               | 48                 | Crustacea                     | 0.0003mg/L  | 2      |
| mercury (elemental) | NOEC                                                                                                                                                                                                                                                                                                                                                                               | 2688               | Crustacea                     | 0.00025mg/L | 2      |
| <b>Legend:</b>      | Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data |                    |                               |             |        |

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**DO NOT** discharge into sewer or waterways.

### Persistence and degradability

| Ingredient | Persistence: Water/Soil               | Persistence: Air                      |
|------------|---------------------------------------|---------------------------------------|
|            | No Data available for all ingredients | No Data available for all ingredients |

### Bioaccumulative potential

| Ingredient | Bioaccumulation                       |
|------------|---------------------------------------|
|            | No Data available for all ingredients |

### Mobility in soil

| Ingredient | Mobility                              |
|------------|---------------------------------------|
|            | No Data available for all ingredients |

## SECTION 13 DISPOSAL CONSIDERATIONS

### Waste treatment methods

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product / Packaging disposal</b> | Consult State Land Waste Management Authority for disposal.<br>▶ Recycle wherever possible.<br>▶ Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.<br>▶ Treat and neutralise at an approved treatment plant. Treatment should involve: Mixing or slurring in water; Neutralisation followed by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or Incineration in a licenced apparatus (after admixture with suitable combustible |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Continued...

**Permite; Lojic +; GS-80, GS-80 Spherical; F400; Ultracaps +; Ultracaps S; SDI Admix; SDI Spherical and New Ultrafine- Capsules**

- ▶ material)
  - ▶ Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.
- [The 1991 Environmental Protection (Duty of Care) Regulations SI No. 2839 and amendments should be noted (United Kingdom).

## SECTION 14 TRANSPORT INFORMATION

### Labels Required

|                  |                                                                                                                                                                     |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |   |
| Marine Pollutant |                                                                                    |

### Land transport (TDG)

|                                            |                                                                                                                                                                                                               |                    |     |                                            |      |            |                |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----|--------------------------------------------|------|------------|----------------|
| UN number                                  | 3506                                                                                                                                                                                                          |                    |     |                                            |      |            |                |
| Packing group                              | III                                                                                                                                                                                                           |                    |     |                                            |      |            |                |
| UN proper shipping name                    | MERCURY CONTAINED IN MANUFACTURED ARTICLES                                                                                                                                                                    |                    |     |                                            |      |            |                |
| Environmental hazard                       | Not Applicable                                                                                                                                                                                                |                    |     |                                            |      |            |                |
| Transport hazard class(es)                 | <table border="1"> <tr> <td>Class</td><td>8</td></tr> <tr> <td>Subrisk</td><td>6.1</td></tr> </table>                                                                                                         | Class              | 8   | Subrisk                                    | 6.1  |            |                |
| Class                                      | 8                                                                                                                                                                                                             |                    |     |                                            |      |            |                |
| Subrisk                                    | 6.1                                                                                                                                                                                                           |                    |     |                                            |      |            |                |
| Special precautions for user               | <table border="1"> <tr> <td>Special provisions</td><td>127</td></tr> <tr> <td>Explosive Limit and Limited Quantity Index</td><td>5 kg</td></tr> <tr> <td>ERAP Index</td><td>Not Applicable</td></tr> </table> | Special provisions | 127 | Explosive Limit and Limited Quantity Index | 5 kg | ERAP Index | Not Applicable |
| Special provisions                         | 127                                                                                                                                                                                                           |                    |     |                                            |      |            |                |
| Explosive Limit and Limited Quantity Index | 5 kg                                                                                                                                                                                                          |                    |     |                                            |      |            |                |
| ERAP Index                                 | Not Applicable                                                                                                                                                                                                |                    |     |                                            |      |            |                |

### Air transport (ICAO-IATA / DGR)

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |              |                                 |     |                               |          |                                          |     |                                        |          |                                                           |           |                                                |           |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------|---------------------------------|-----|-------------------------------|----------|------------------------------------------|-----|----------------------------------------|----------|-----------------------------------------------------------|-----------|------------------------------------------------|-----------|
| UN number                                                 | 3506                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |              |                                 |     |                               |          |                                          |     |                                        |          |                                                           |           |                                                |           |
| Packing group                                             | III                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    |              |                                 |     |                               |          |                                          |     |                                        |          |                                                           |           |                                                |           |
| UN proper shipping name                                   | Mercury contained in manufactured articles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |              |                                 |     |                               |          |                                          |     |                                        |          |                                                           |           |                                                |           |
| Environmental hazard                                      | Not Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |              |                                 |     |                               |          |                                          |     |                                        |          |                                                           |           |                                                |           |
| Transport hazard class(es)                                | <table border="1"> <tr> <td>ICAO/IATA Class</td><td>8</td></tr> <tr> <td>ICAO / IATA Subrisk</td><td>6.1</td></tr> <tr> <td>ERG Code</td><td>8L</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                            | ICAO/IATA Class    | 8            | ICAO / IATA Subrisk             | 6.1 | ERG Code                      | 8L       |                                          |     |                                        |          |                                                           |           |                                                |           |
| ICAO/IATA Class                                           | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |              |                                 |     |                               |          |                                          |     |                                        |          |                                                           |           |                                                |           |
| ICAO / IATA Subrisk                                       | 6.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    |              |                                 |     |                               |          |                                          |     |                                        |          |                                                           |           |                                                |           |
| ERG Code                                                  | 8L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |              |                                 |     |                               |          |                                          |     |                                        |          |                                                           |           |                                                |           |
| Special precautions for user                              | <table border="1"> <tr> <td>Special provisions</td><td>A48 A69 A191</td></tr> <tr> <td>Cargo Only Packing Instructions</td><td>869</td></tr> <tr> <td>Cargo Only Maximum Qty / Pack</td><td>No Limit</td></tr> <tr> <td>Passenger and Cargo Packing Instructions</td><td>869</td></tr> <tr> <td>Passenger and Cargo Maximum Qty / Pack</td><td>No Limit</td></tr> <tr> <td>Passenger and Cargo Limited Quantity Packing Instructions</td><td>Forbidden</td></tr> <tr> <td>Passenger and Cargo Limited Maximum Qty / Pack</td><td>Forbidden</td></tr> </table> | Special provisions | A48 A69 A191 | Cargo Only Packing Instructions | 869 | Cargo Only Maximum Qty / Pack | No Limit | Passenger and Cargo Packing Instructions | 869 | Passenger and Cargo Maximum Qty / Pack | No Limit | Passenger and Cargo Limited Quantity Packing Instructions | Forbidden | Passenger and Cargo Limited Maximum Qty / Pack | Forbidden |
| Special provisions                                        | A48 A69 A191                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |              |                                 |     |                               |          |                                          |     |                                        |          |                                                           |           |                                                |           |
| Cargo Only Packing Instructions                           | 869                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    |              |                                 |     |                               |          |                                          |     |                                        |          |                                                           |           |                                                |           |
| Cargo Only Maximum Qty / Pack                             | No Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |              |                                 |     |                               |          |                                          |     |                                        |          |                                                           |           |                                                |           |
| Passenger and Cargo Packing Instructions                  | 869                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    |              |                                 |     |                               |          |                                          |     |                                        |          |                                                           |           |                                                |           |
| Passenger and Cargo Maximum Qty / Pack                    | No Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |              |                                 |     |                               |          |                                          |     |                                        |          |                                                           |           |                                                |           |
| Passenger and Cargo Limited Quantity Packing Instructions | Forbidden                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |              |                                 |     |                               |          |                                          |     |                                        |          |                                                           |           |                                                |           |
| Passenger and Cargo Limited Maximum Qty / Pack            | Forbidden                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |              |                                 |     |                               |          |                                          |     |                                        |          |                                                           |           |                                                |           |

### Sea transport (IMDG-Code / GGVSee)

|                              |                                                                                                                                                                                 |            |          |                    |     |                    |      |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|--------------------|-----|--------------------|------|
| UN number                    | 3506                                                                                                                                                                            |            |          |                    |     |                    |      |
| Packing group                | III                                                                                                                                                                             |            |          |                    |     |                    |      |
| UN proper shipping name      | MERCURY CONTAINED IN MANUFACTURED ARTICLES                                                                                                                                      |            |          |                    |     |                    |      |
| Environmental hazard         | Marine Pollutant                                                                                                                                                                |            |          |                    |     |                    |      |
| Transport hazard class(es)   | <table border="1"> <tr> <td>IMDG Class</td><td>8</td></tr> <tr> <td>IMDG Subrisk</td><td>6.1</td></tr> </table>                                                                 | IMDG Class | 8        | IMDG Subrisk       | 6.1 |                    |      |
| IMDG Class                   | 8                                                                                                                                                                               |            |          |                    |     |                    |      |
| IMDG Subrisk                 | 6.1                                                                                                                                                                             |            |          |                    |     |                    |      |
| Special precautions for user | <table border="1"> <tr> <td>EMS Number</td><td>F-A, S-B</td></tr> <tr> <td>Special provisions</td><td>366</td></tr> <tr> <td>Limited Quantities</td><td>5 kg</td></tr> </table> | EMS Number | F-A, S-B | Special provisions | 366 | Limited Quantities | 5 kg |
| EMS Number                   | F-A, S-B                                                                                                                                                                        |            |          |                    |     |                    |      |
| Special provisions           | 366                                                                                                                                                                             |            |          |                    |     |                    |      |
| Limited Quantities           | 5 kg                                                                                                                                                                            |            |          |                    |     |                    |      |

### Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

**Permite; Lojic +; GS-80, GS-80 Spherical; F400; Ultracaps +; Ultracaps S; SDI Admix; SDI Spherical and New Ultrafine- Capsules**

## SECTION 15 REGULATORY INFORMATION

### Safety, health and environmental regulations / legislation specific for the substance or mixture

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

#### MERCURY (ELEMENTAL)(7439-97-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

|                                                                                |                                                                                         |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Canada - (English)                                                             | Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits |
| Canada - Alberta Occupational Exposure Limits                                  | Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances           |
| Canada - British Columbia Occupational Exposure Limits                         | Canada Categorization decisions for all DSL substances                                  |
| Canada - Nova Scotia Occupational Exposure Limits                              | Canada Domestic Substances List (DSL)                                                   |
| Canada - Prince Edward Island Occupational Exposure Limits                     | International Agency for Research on Cancer (IARC) - Agents Classified by the IARC      |
| Canada - Quebec Permissible Exposure Values for Airborne Contaminants (French) | Monographs                                                                              |

| National Inventory            | Status                                                                                                                                                                                   |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Australia - AICS              | Y                                                                                                                                                                                        |
| Canada - DSL                  | Y                                                                                                                                                                                        |
| Canada - NDSL                 | N (mercury (elemental))                                                                                                                                                                  |
| China - IECSC                 | Y                                                                                                                                                                                        |
| Europe - EINEC / ELINCS / NLP | Y                                                                                                                                                                                        |
| Japan - ENCS                  | N (mercury (elemental))                                                                                                                                                                  |
| Korea - KECI                  | Y                                                                                                                                                                                        |
| New Zealand - NZIoC           | Y                                                                                                                                                                                        |
| Philippines - PICCS           | Y                                                                                                                                                                                        |
| USA - TSCA                    | Y                                                                                                                                                                                        |
| <b>Legend:</b>                | Y = All ingredients are on the inventory<br>N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets) |

## SECTION 16 OTHER INFORMATION

### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by SDI Limited using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

### Definitions and abbreviations

PC — TWA: Permissible Concentration-Time Weighted Average  
 PC — STEL: Permissible Concentration-Short Term Exposure Limit  
 IARC: International Agency for Research on Cancer  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 STEL: Short Term Exposure Limit  
 TEEL: Temporary Emergency Exposure Limit.  
 IDLH: Immediately Dangerous to Life or Health Concentrations  
 OSF: Odour Safety Factor  
 NOAEL :No Observed Adverse Effect Level  
 LOAEL :Lowest Observed Adverse Effect Level  
 TLV: Threshold Limit Value  
 LOD: Limit Of Detection  
 OTV: Odour Threshold Value  
 BCF: BioConcentration Factors  
 BEI: Biological Exposure Index

The information contained in the Safety Data Sheet is based on data considered to be accurate, however, no warranty is expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof.

Other information:

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Date of preparation/revision: 23rd September 2015

Department issuing SDS: Research and Development

Contact: Technical Director